

FIGURE 1



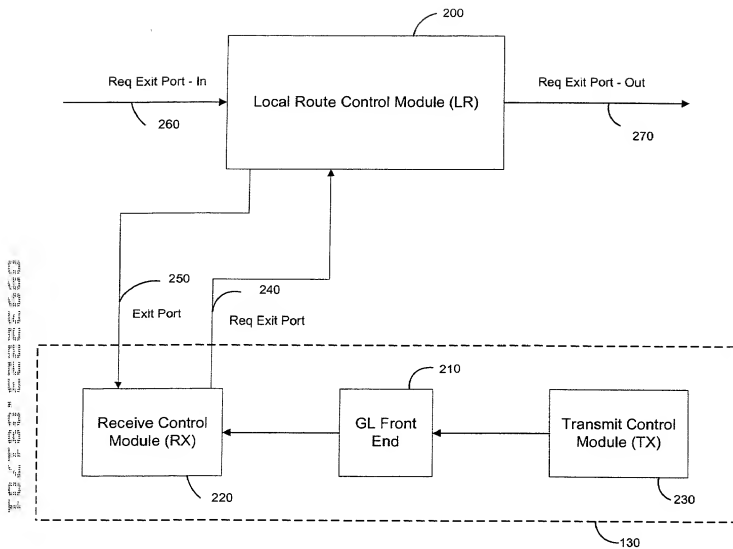


FIGURE 2A

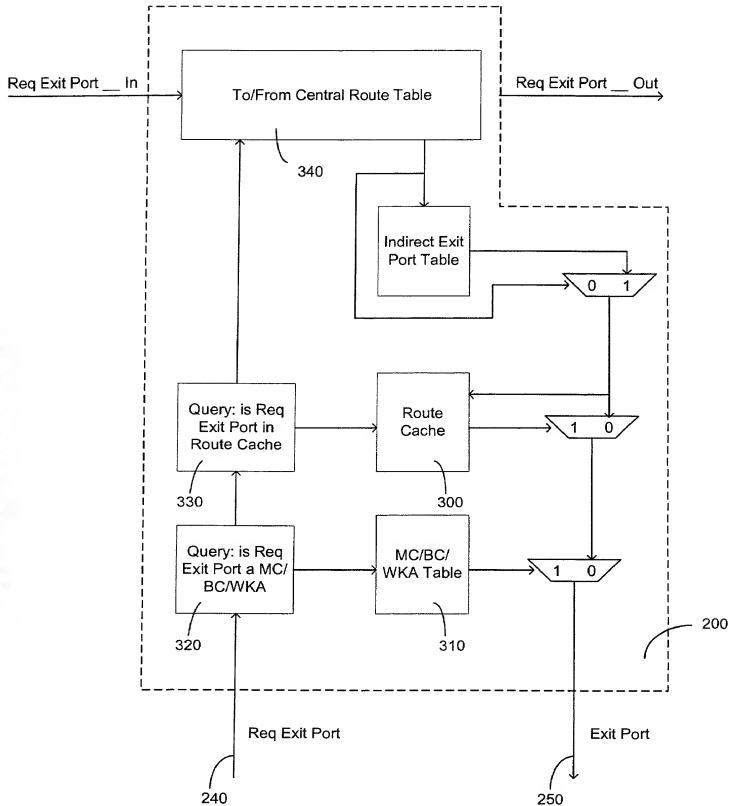


FIGURE 3

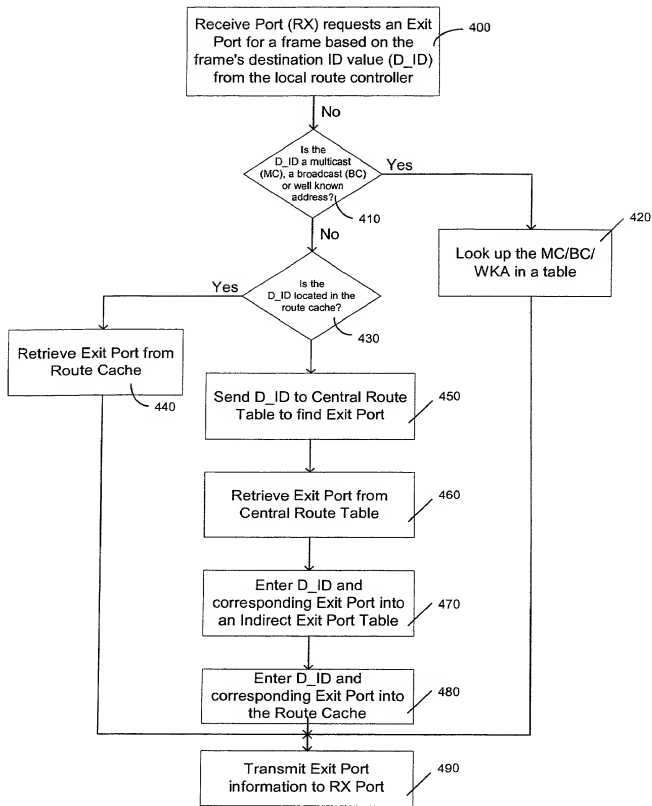


FIGURE 4

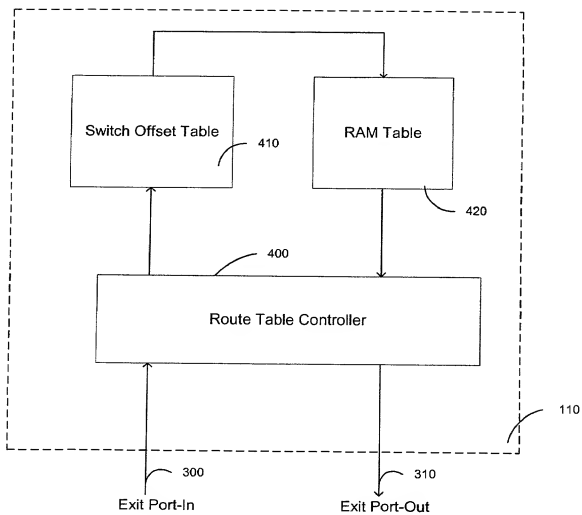


FIGURE 4A

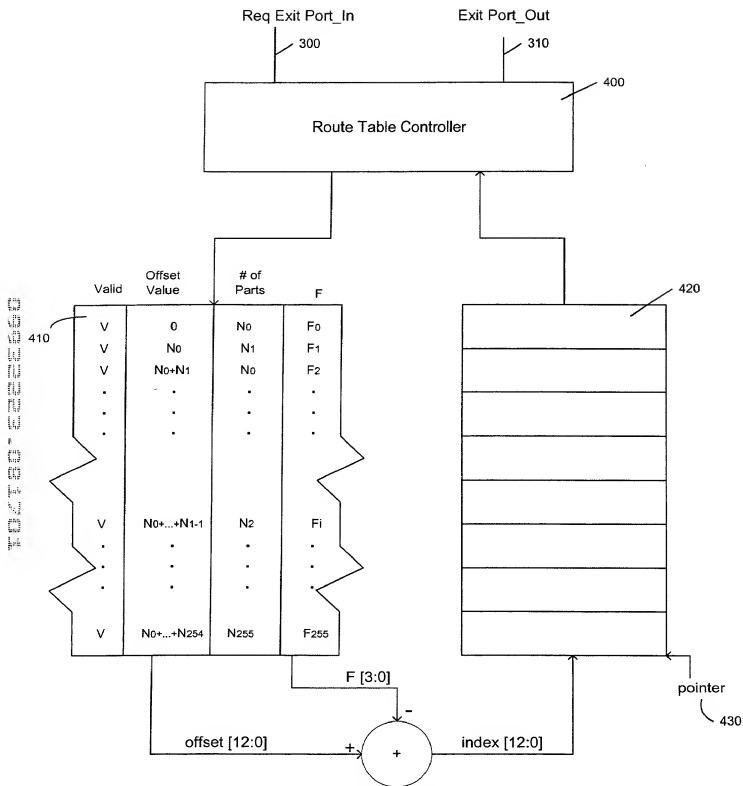
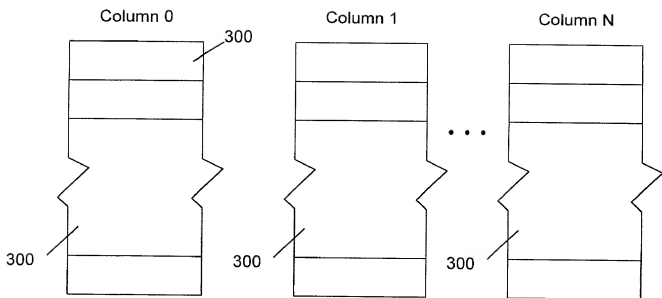


FIGURE 4B



**FIGURE 5A**



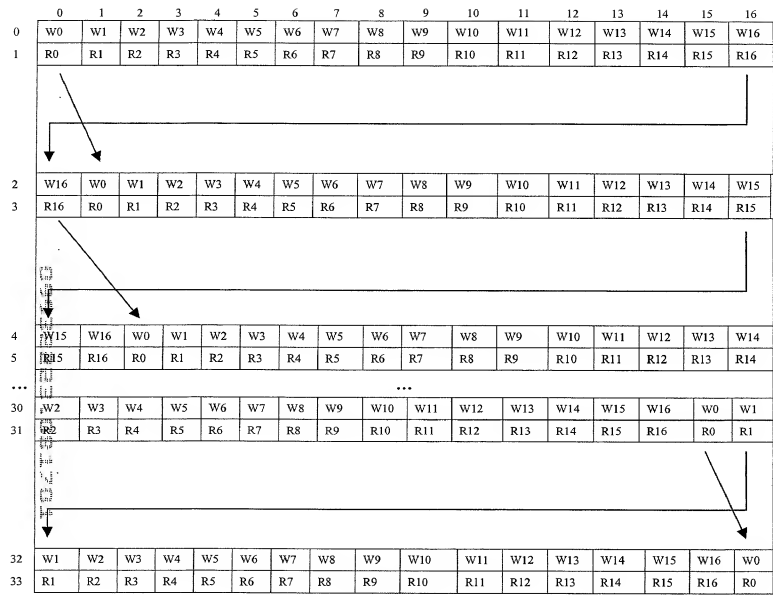


Figure 5B

## 2GBps Write

## Column

Time	Row	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0T	0								SOF	A	B	C	D	E	F	G	H	I
20T	0	J	K	L	M	N	O	P										
34T	1								Q	R	S	T	U	V	W	X	Y	Z
54T	1	CRC	EOF															

## 2GBps Read after 2GBps Write

## Column

Time	Row	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1T	0								SOF	A	B	C	D	E	F	G	H	I
21T	0	J	K	L	M	N	O	P										
35T	1								Q	R	S	T	U	V	W	X	Y	Z
55T	1	CRC	EOF															

FIFO_0	FIFO_1
SOF	A
B	C
D	E
F	G
H	I
J	K
L	M
N	O
P	Q
R	S
T	U
V	W
X	Y
Z	CRC
EOF	

FIGURE 6

## 2GBps Write

## Column

Time	Row	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0T	0								SOF	A	B	C	D	E	F	G	H	I
20T	0	J	K	L	M	N	O	P										
34T	1								Q	R	S	T	U	V	W	X	Y	Z
54T	1	CRC	EOF															

## 1GBps Read after 2GBps Write

## Column

Time	Row	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1T	0								SOF	A	B	C	D	E	F	G	H	I
21T	0	J	K	L	M	N	O	P										
35T																		
55T																		
69T	1								Q	R	S	T	U	V	W	X	Y	Z
89T	1	CRC	EOF															

FIFO 0	FIFO 1
SOF	A
B	C
D	E
F	G
H	I
J	K
L	M
N	O
P	Q
R	S
T	U
V	W
X	Y
Z	CRC
EOF	

FIGURE 7

## 1GBps Write

## Column

Time	Row	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0T	0								SOF	—	A	—	B	—	C	—	D	—
20T	0	E	—	F	—	G	—	H	—	I	—	J	—	K	—	L	—	M
54T	0	—	N	—	O	—	P	—										
68T	1								Q	—	R	—	S	—	T	—	U	—
88T	1	V	—	W	—	X	—	Y	—	Z	CRC	EOF						

## 2GBps Read after 1GBps Write

## Column

Time	Row	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1T	0								SOF	I	A	J	B	K	C	L	D	M
21T	0	E	N	F	O	G	P	H										
35T	1								Q	Z	R	CRC	S	EOF	T	—	U	—
55T	1	V	—	W	—	X	—	Y										

FIFO 0	FIFO 1
SOF	I
A	J
B	K
C	L
D	M
E	N
F	O
G	P
H	Q
Z	R
CRC	S
EOF	T
	U
	V
	W
	X
	Y

FIGURE 8

## 1GBps Write

## Column

Time	Row	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0T	0								SOF	—	A	—	B	—	C	—	D	—
20T	0	E	—	F	—	G	—	H	—	I	—	J	—	K	—	L	—	M
54T	0	—	N	—	O	—	P	—										
68T	1								Q	—	R	—	S	—	T	—	U	—
88T	1	V	—	W	—	X	—	Y	—	Z	CRC	EOF						

## 1GBps Read after 1GBps Write

## Column

Time	Row	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1T	0								SOF	—	A	—	B	—	C	—	D	—
21T	0	E	—	F	—	G	—	H	—	I	—	J	—	K	—	L	—	M
35T	0	—	N	—	O	—	P	—										
55T	1								Q	—	R	—	S	—	T	—	U	—
69T	1	V	—	W	—	X	—	Y	—	Z	CRC	EOF						

FIFO_0	FIFO_1
SOF	
A	
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
CRC	
EOF	

FIGURE 9

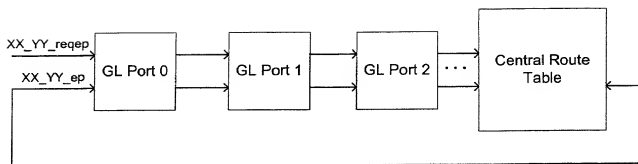


FIGURE 10